

Claims

1. An arrangement of truss beams comprising: two chord beams with at least one cast chord (8), and of building elements with a slab (9) with strengthening truss beams (15) with at least one cast chord (8), in which the strengthening truss beams contain a beam web assembly (1,4) consisting of truss web members of a rod, wire or strip iron material, which truss web members are being bent and joined to such design that the truss web members, when seen in a longitudinal direction of the chord, form a zigzag or zigzag-like pattern or, as truss braces being placed diagonally in relation to the chord's (8) longitudinal direction, into zigzag or saw tooth shape, thus forming a truss web, fastened to the chords in a truss beam or to the chord and the slab in a building element, the beam web assembly having several truss web members consisting of a rod bent to a triangular shape or a triangle like shape (1,4), each truss web member having hook-like bends (2,2') in both ends, the bends being mirror images of each other, a middle part of said web member being straight and forming a base in said triangle shaped member, said truss web member is being bent, in a main symmetrical view, around a middle of said base, the straight ends forming the side parts in said triangle shaped web member, and said end bends (2,2') being oriented beside each other when seen in the chord (8) longitudinal direction and wrapped over adjacent to each other so that said straight ends of said web members intersect each other in one of said triangle corners, and together with said end bends (2,2') forming a loop so that one with the chord (8) longitudinal reinforcement rod (6) is threaded inside said bends, said end bends are somewhat or entirely transverse to the chord longitudinal direction and that said bends (2,2') are cast inside the chord (8).
2. An arrangement according to claim 1 wherein said truss web members (1,4) are bent in four steps, counting first from the rod end, bending (2), after that the first base bending (3), then the second base bending (3') and at last the second end bending (2').

Description

Generally Known about the Invention Using Today's Technology

[0001] The invention is a further development of the Swedish patent SE 502302 E04C 3/293 PCT SE 94/00700 An arrangement at a beam or a building element, particularly the truss web members which are illustrated in the FIGS. 21 A-B and 22 A-D.

[0002] The invention according to this patent makes it possible to cast the cords in strengthening truss beams in a building element at the same time as one casts the element slab, to deal with the heavy handling needed by precast beams and to speed up the process.

[0003] This has been demonstrated to function well.

[0004] With the previous invention we have been successful in making building elements more quickly, and that are longer and stronger than usual without problems arising from deflection. The plumbing, electrical and other utilities can be installed inside the building